

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 2-4, 9, and 12-23 in accordance with the following:

1. (Cancelled)

2. (Currently Amended) An access request processing method for use in a communication device providing inter-user communication, the access request processing method comprising:

storing statuses of the users;

preparing a processing policy in which processes for communication access requests are set for each of the users, the processes each in turn being according to a first user from whom there is a request for communication with a second user, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

storing the attribute-assigning policy; and

when a request for communication occurs, looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the communication device a process for the request based, in the processing policy, on the second user with whom communication is requested, and determining a process for the request based, in the processing policy, on the determined attribute~~an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, reporting the determined process for the request to the communication device.~~

3. (Currently Amended) An access request processing system for use in a communication device providing communication among user terminals on a network, the access

request processing system comprising:

first storing means for storing information related to users;

second storing means for storing statuses of the users;

third storing means for storing a processing policy in which processes for communication access requests are set for each of the users, the processes each in turn being according to a first user as a communication requester from whom there is a request for communication with a second user as a communication requestee, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

fourth storing means for storing the attribute-assigning policy;

authentication means for verifying, when a request for communication occurs, the communication requester;

liaising means for acquiring from the communication device the communication requester and requestee, as well as content of the communication;

determining means for looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the communication device a process for the request, by obtaining one of the processes in the policy based on the communication requestee and the content of the communication acquired by said liaising means, consulting status of the communication requestee and information related to the communication requester, based on result of the verification by said authentication means and on the obtained processing policy, and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device;

an information recording means for accepting input of recording in said first storing means the information related to users;

a status recording means for accepting input of and recording in said second storing means the statuses of the users;

a policy recording means for accepting input of and recording in said third storing means the processing policy; and a policy recording means for accepting input of and recording in said

fourth storing means the attribute-assigning policy.

4. (Currently Amended) An access request processing device for use in a communication device providing communication among user terminals on a network, the access request processing device comprising:

first storing means for storing information related to users;

second storing means for storing statuses of the users;

third storing means for storing a processing policy in which processes for communication access requests are set for each of the users, the processes each in turn being according to a first user as a communication requester who requests communication with a second user as a communication requestee, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

fourth storing means for storing the attribute assigning policy;

authentication means for verifying, when a request for communication occurs, the communication requester;

liaising means for acquiring from the communication device the communication requester and requestee, as well as content of the communication; and

determining means for looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the communication device a process for the request, by obtaining one of the processes in the policy based on the communication requestee and the content of the communication acquired by said liaising means, consulting status of the communication requestee and information related to the communication requester, based on result of the verification and on the obtained processing policy, and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device.

5. (Cancelled)

6. (Original) An access request processing device according to claim 4, further having an inquiry means for inquiring among communication requestee terminals, according to the process determined by the determining means, whether to permit the communication request, and for obtaining a reply to the inquiry.

7. (Previously Presented) An access request processing device according to claim 4, further comprising a request instructing means for, if information content related to the communication requester in order to handle the communication request is not recorded in said first storing means, making an obtain request for the information among a plurality of communication requester terminals and obtaining a reply.

8. (Previously Presented) An access request processing device according to claim 4, being connected to a peripheral information-providing means storing information related to the users, further comprising an information obtaining means for obtaining information related to the communication requester from the peripheral information-providing means if information content related to the communication requester in order to handle the communication request is not recorded in said first storing means.

9. (Currently Amended) An access rights setting device for use in a communication device for inter-communication among other communication devices via a relay terminal, the access rights setting device comprising:

an information recording means for accepting input of information related to users and recording the information in the relay terminal;

a status recording means for accepting input of status on the users and recording the statuses in the relay terminal;

a policy recording means for accepting input of, and recording in the relay terminal, a processing policy in which processes for communication access requests are set for each of the users, the processes each in turn being according to a first user from whom there is a request for communication with a second user, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

a policy recording means for accepting input of, and recording in the relay terminal, the

attribute-assigning policy; and

a determining means for looking up the attribute-assigning policy and information of the first user and the second user, ~~and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting a process for the request to the communication device, and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device.~~

10. (Previously Presented) An access rights setting device according to claim 9, wherein said policy recording means further accepts input of, and records in the relay terminal, the attribute-assigning policy in which an attribute of the first user who requests communication with the second user is set for the second user.

11. (Original) An access rights setting device according to claim 9, further having a replying means for reporting to the users inquiries from the relay terminal whether to permit requested communications, and for accepting and sending to the relay terminal user replies to the inquiries.

12. (Currently Amended) A computer-readable recording medium storing an access request processing program for use in communication devices providing communication among user terminals on a network, the computer-readable recording medium storing an access request processing program for executing:

storing information related to users;

storing statuses of all the users;

storing a processing policy in which processes for communication access requests are set for each of the users, the processes each in turn being according to a first user as a communication requester from whom there is a request for communication with a second user as a communication requestee, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

storing the attribute-assigning policy;
verifying, when a request for communication occurs, the communication requester;
acquiring from the communication device the communication requester and requestee,
as well as content of the communication;

looking up the attribute-assigning policy and information of the first user and the second user, an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device;

determining a process for the request by obtaining one of the processes in the policy based on the acquired communication requestee and the content of the communication, and consulting status of the communication requestee and information related to the communication requester, based on result of the verifying the communication requester and on the obtained processing policy, and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user; and

reporting the determined process to the communication device.

13. (Currently Amended) A computer-readable recording medium storing an access rights setting program for use in a communication device for inter-communication among other communication devices via a relay terminal, the computer-readable recording medium storing an access rights setting program for executing:

accepting input of information related to users and recording the information in the relay terminal;

accepting input of status on the users and recording the statuses in the relay terminal;

accepting input of, and recording in the relay terminal, a processing policy in which processes for communication access requests are set, the processes each in turn being according to a first user from whom there is a request for communication with a second user, to availability status of the second user with whom communication is requested, and to content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the

second user;

accepting input of, and recording in the relay terminal, the attribute assigning policy; and
looking up the attribute-assigning policy and information of the first user and the second user and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting a process for a request to the communication device, and
~~determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user~~ a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device.

14. (Currently Amended) An access request processing method for use in an information providing device providing information to peripheral information terminals in response to requests, the access request processing method comprising:

storing per information item user statuses related to the information;

preparing a processing policy in which processes for access information requests are set per information item, the processes each in turn being according to a first user who requests information, to availability status of a second user related to the information, and to the information the request targets, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

storing the attribute-assigning policy; and

when a request for any of the information items occurs, looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the information providing device a process for the request based on the processing policy for the information the request targets, and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication

device.

15. (Currently Amended) An access request processing system for use in an information providing device providing information to peripheral information terminals in response to requests, the access request processing system comprising:

first storing means for storing information related to requesters requesting the information;

second storing means for storing statuses of users related to the information the requests target;

third storing means for storing a processing policy in which processes for access information requests are set for each of the users, the processes being according to information requesters including a first user, to availability statuses of the users including a second user related to the information, and to the information the requests target, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

fourth storing means for storing the attribute-assigning policy;

authentication means for verifying, when an information provision request occurs, the information requester;

liaising means for acquiring from the information providing device the information requester and the information the request targets;

determining means for looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the information providing device a process for the request, by obtaining one of the processes in the policy based on the information the request targets acquired by said liaising means, consulting information related to the information requester and status of the second user related to the information the request targets, based on the result of information requester verification by said authentication means and on the obtained processing policy, and for determining a process for the request based, in the processing policy, on the determined an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, reporting the determined process for the request to the communication device;

an information recording means for accepting input of and recording in said first storing

means the information related to the information requester;

a status recording means for accepting input of and recording in said second storing means the status of the second user related to the information;

a policy recording means for accepting input of and recording in said third storing means processing policy settings; and

a policy recording means for accepting input of and recording in said fourth storing means the attribute-assigning policy.

16. (Currently Amended) An access request processing device for use in an information providing device providing information to peripheral information terminals in response to requests, the access request processing device comprising:

first storing means for storing information related to access information requesters including a first user requesting the information;

second storing means for storing availability statuses of users including a second user related to the information the requests target;

third storing means for storing a processing policy in which processes for access information requests are set for each of the users, the processes being according to the information requesters, to availability statuses of the users related to the information, and to the information the requests target, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

fourth storing means for storing the attribute-assigning policy;

authentication means for verifying, when an information request occurs, the information requester;

liaising means for acquiring from the information providing device the information requester and the information the request targets; and

determining means for looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting to the information providing device a process for the request, by obtaining one of the processes in the policy based on the information the request targets acquired by said liaising means, consulting information related to the information requester and status of the second user related to the information the request targets, based on the result of information requester verification by said

~~authentication means and on the obtained processing policy, and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user~~ a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device.

17. (Currently Amended) An access rights setting device for use in an information terminal connected via a network to an information providing device providing information to peripheral information terminals in response to requests, the access rights setting device comprising:

an information recording means for accepting input of and sending to the information providing terminal, information related to users requesting provision of the information;

an availability status recording means for accepting input of and sending to the information providing device, status of users related to the information;

a policy recording means for accepting settings for and sending to the information providing device, a policy in which processes for information requests are set for each information item, the processes being according to information requesters including a first user, to availability statuses of the users including a second user related to the information, and to the information the requests target, the policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

a policy recording means for accepting settings for and sending to the information providing device, the attribute-assigning policy; and

a determining means for looking up the attribute-assigning policy and information of the first user and the second user, ~~and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting a process for the request to the information providing device, and for determining a process for the request based, in the processing policy, on the determined~~ an attribute of a requester based on user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, reporting the determined process for the request to the communication device.

18. (Currently Amended) A computer-readable medium storing an access request processing program for use in an information providing device providing information to

peripheral information terminals in response to requests, the computer-readable medium storing an access request processing program for executing:

- storing information related to access information requesters including a first user as an information requester requesting the information;

- storing availability statuses of users including a second user related to the information the requests target;

- storing a processing policy in which processes for information requests are set for each of the users, the processes being according to the information requesters, to the availability statuses of the users related to the information, and to the information the requests target, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

- storing the attribute-assigning policy;

- verifying, when an information provision request occurs, an information provision requester;

- acquiring from the information providing device the information requester and the information the request targets;

- looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device;

- determining and reporting to the information providing device a process for the request, by obtaining one of the processes in the policy based on the information the request targets acquired in the acquiring, and consulting information related to the information requester and status of the second user related to the information the request targets, based on the result of the verifying of the information requester and on the obtained processing policy, and determining an attribute of a requester based on user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user; and

- reporting to the information providing device the process determined in the determining.

19. (Currently Amended) A computer-readable medium storing an access rights

setting program for use in an information terminal connected via a network to an information providing device providing information to peripheral information terminals in response to requests, the computer-readable medium storing an access rights setting program for executing:

- accepting input of and sending to the information providing terminal information related to users including a first user as an information requester requesting provision of the information;

- accepting input of and sending to the information providing device availability status of users including a second user related to the information;

- accepting settings for and sending to the information providing device a policy in which processes for information requests are set for each information item, the processes being according to information requesters, to availability statuses of the users related to the information, and to the information the requests target, the policy including an attribute-assigning policy setting a role-based relationship between the first user requesting information and the second user;

- accepting input of and sending to the information providing device the attribute-assigning policy; and

- looking up the attribute-assigning policy and information of the first user and the second user and determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, and reporting a process for a request to the information providing device, and determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device ~~an attribute of the requester based on user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user.~~

20. (Currently Amended) An access rights setting device for use in a communication device for inter-communication among other communication devices via a relay terminal, the access rights setting device comprising:

- an information recorder which accepts input of information related to users and records the information in the relay terminal;

- a status recorder which accepts input of availability status on the users and records availability statuses in the relay terminal;

- a policy recorder which accepts input of, and records in the relay terminal, a processing policy in which processes for communication access requests are set for each of the users, the

processes each respectively based on a first user from whom there is a request for communication with a second user, availability status of the second user with whom communication is requested, and content of the requested communication, the processing policy including an attribute-assigning policy setting a role-based relationship between the first user requesting communication and the second user;

a policy recorder which accepts input of, and records in the relay terminal, the attribute-assigning policy; and

a determining unit which looks up the attribute-assigning policy and information of the first user and the second user ~~and determines~~, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining and reports a process for the request to the communication device, and determines an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device.

21. (Currently Amended) An access request processing device for use in a communication device providing communication among user terminals on a network, the access request processing device comprising:

first storing means for storing information related to users;

second storing means for storing availability statuses of the users;

third storing means for storing a processing policy in which processes for communication requests are set for each of the users in accordance with other user requesting communication with the users, availability statuses of the users to whom communication is requested, and a content of the requested communication;

fourth storage means for storing an attribute-assigning policy;

when a request for communication occurs, looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device;

authentication means for verifying, when a request for communication occurs, the

communication requester;

liaising means for acquiring from the communication device the communication requester and requestee, as well as content of the communication;

determining means for obtaining said processing policy based on the communication requestee and the content of the communication acquired by said liaising means, for looking up information related to the communication requester and availability status of the communication requestee based on result of the verification by said authentication means and on the obtained processing policy, for determining and reporting to the communication device a process for the request, and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user; and

request instructing means for requesting acquisition of the information related to the communication requester, and for acquiring a reply from the communication requester's terminal when information related to the communication requesters is not registered in said first storing means for processing communication requests.

22. (Currently Amended) An access request processing device for use in a communication device providing communication among user terminals on a network, the access request processing device comprising:

first storing means for storing information related to users;

second storing means for storing availability statuses of the users;

third storing means for storing a processing policy in which processes for communication access requests are set for each of the users in accordance with other users requesting communication with the users, availability statuses of the users to whom communication is requested, and a content of the requested communication;

fourth storing means for storing an attribute-assigning means;

when a request for communication occurs, looking up the attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to the communication device;

authentication means for verifying, when a request for communication occurs, the

communication requester;

liaising means for acquiring from the communication device the communication requester and requestee, as well as content of the communication;

determining means for obtaining said processing policy based on the communication requestee and the content of the communication acquired by said liaising means, for looking up information related to the communication requester and availability status of the communication requestee based on result of the verification by said authentication means and on the obtained processing policy, for determining and reporting to the communication device a process for the request, and for determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user; and

information acquiring means for being connected to other information providing means that stores information related to the users, and for acquiring information related to the communication requester from the other information providing means when information related to the communication requester is not registered in said first storing means for processing the communication requests.

23. (Currently Amended) An access request method, comprising:

preparing and storing a processing policy in which processes for communication requests are set for each user, said processing policy including requestee status, content of a requested communication, and an attribute defining a relationship between a first user and a second user; and

in response to a communication request, ~~retrieving said policy and determining and applying a process based on said policy, looking up an attribute-assigning policy and information of the first user and the second user, determining an attribute of a requester based on stored user information or the attribute-assigning policy, said attribute defining a role-based relationship between the first user requesting communication and the second user, determining a process for the request based, in the processing policy, on the determined attribute, reporting the determined process for the request to a communication device.~~